

# BACTERIOLOGICAL NEWS

*Society of American Bacteriologists*

OFFICE OF THE  
SECRETARY

DEPARTMENT OF BACTERIOLOGY  
UNIVERSITY OF WISCONSIN  
MADISON, WIS.

VOLUME 24

January, 1958

NUMBER 1

## 1958 OFFICERS AND COUNCILORS

<i>President:</i>	HARRY EAGLE, National Institutes of Health, Bethesda, Md.
<i>Vice-President:</i>	P. R. EDWARDS, Communicable Disease Center, Chamblee, Ga.
<i>Secretary:</i>	E. M. FOSTER, University of Wisconsin, Madison 6, Wis.
<i>Treasurer:</i>	J. H. BAILEY, Sterling-Winthrop Research Institute, Rensselaer, N. Y.
<i>Business Manager:</i>	F. C. HARWOOD, Mt. Royal and Guilford Avenues, Baltimore 2, Md.
<i>Councilors-at-Large:</i>	I. C. GUNSALUS, University of Illinois, Urbana, Ill.
	R. E. HUNGATE, University of California, Davis, Cal.
	MARGARET PITTMAN, National Institutes of Health, Bethesda, Md.
	ORVILLE WYSS, University of Texas, Austin, Tex.

## Councilors Elected by Local Branches:

J. J. Reid, University Park, Pennsylvania	Allegheny
M. P. Starr, Davis, California	Northern California-Hawaii
M. J. Pickett, Los Angeles, California	Southern California
J. L. Tong, Denver, Colorado	Colorado-New Mexico-Wyoming
V. W. Cochrane, Middletown, Connecticut	Connecticut Valley
M. M. Streifeld, Miami, Florida	South Florida
J. B. Evans, Chicago, Illinois	Illinois
J. M. McGuire, Indianapolis, Indiana	Indiana
D. H. Larsen, Provo, Utah	Intermountain
G. E. Stapleton, Oak Ridge, Tennessee	Kentucky-Tennessee
D. E. Shay, Baltimore, Maryland	Maryland
R. W. Sarber, Detroit, Michigan	Michigan
I. L. Shechmeister, St. Louis, Missouri	Eastern Missouri
C. E. Georgi, Lincoln, Nebraska	Missouri Valley
David Hendlin, Rahway, New Jersey	New Jersey
H. W. Seeley, Ithaca, New York	Central New York
H. L. Ehrlich, Troy, New York	Eastern New York
Beatrice Seegal, New York, New York	New York City
J. L. Etchels, Raleigh, North Carolina	North Carolina
F. E. Nelson, Ames, Iowa	North Central
J. H. Hanks, Boston, Massachusetts	Northeast
V. A. Cherrington, Moscow, Idaho	Northwest
F. J. Murray, Cincinnati, Ohio	Ohio
Amadeo Bondi, Jr., Philadelphia, Pennsylvania	Eastern Pennsylvania
Amadeu Cury, New York, New York	Rio de Janeiro
Hilary Koprowski, Pearl River, New York	U. S. A. representative to Rio Branch
A. R. Colmer, Baton Rouge, Louisiana	South Central
John W. Foster, Athens, Georgia	Southeastern
V. T. Schuhardt, Austin, Texas	Texas
A. E. Feller, Charlottesville, Virginia	Virginia
Morrison Rogosa, Bethesda, Maryland	Washington, D. C.

## Council Policy Committee:

	Harry Eagle, <i>Chairman</i>	E. M. Foster, <i>Secretary</i>	
P. W. Wilson	J. H. Bailey	J. R. Porter	P. R. Edwards
K. B. Raper (1958)	J. H. Hanks (1959)	C. F. Noven, Jr. (1960)	

## Invited Members (Nonvoting):

J. R. Porter, Editor-in-Chief, JOURNAL OF BACTERIOLOGY; Henry Scherp, Editor-in-Chief, BACTERIOLOGICAL REVIEWS; H. B. Woodruff, Editor-in-Chief, APPLIED MICROBIOLOGY, R. D. Housewright, Chairman of the Program Committee; M. J. Foter, Director of the Employment Bureau; E. Staten Wynne, Chairman of the Division of General Bacteriology; W. S. Preston, Chairman of the Division of Medical Bacteriology, Immunology and Comparative Pathology; S. E. Hartsell, Chairman of the Division of Agricultural and Industrial Bacteriology; R. D. DeMoss, Chairman of the Division of Bacterial Physiology.

# FIFTY-EIGHTH GENERAL MEETING, SOCIETY OF AMERICAN BACTERIOLOGISTS

Morrison Hotel, Chicago, Illinois

April 27 Through May 1, 1958

The Society of Illinois Bacteriologists welcomes the opportunity to be hosts to the members of the Society of American Bacteriologists at the Morrison Hotel, Chicago, April 27th through May 1, 1958. The opening session will be held at 8:00 o'clock, Sunday evening, in the world-famous Terrace Casino, when an outstanding speaker will address the group. This session will be followed at 9:30 P.M. by the annual Smoker, also in the Terrace Casino. Admission to these two events will be by registration badge only.

All the scientific sessions as well as all other meetings will be held in the Morrison Hotel, which has unlimited meeting room facilities. Fifteen hundred sleeping rooms have been reserved at the headquarters hotel, reservation cards for which are enclosed with this newsletter. The reservation cards are to be returned directly to the Morrison Hotel. Facilities are available in the Morrison Hotel to accommodate approximately three hundred graduate students in dormitory style rooms at a cost of \$3.50 per person per day. Graduate students who wish to take advantage of this reduced rate must submit their reservation requests directly to Mr. George Josh, Armour and Company, 1425 West 42nd Street, Chicago, Illinois, together with a letter of certification from their major professor. These requests must be received no later than April 1.

In addition to the many interesting scientific sessions, the Local Committee has planned an unusual exhibit area. The number of commercial exhibits has now surpassed the previous all-time high and is expected to reach fifty or more. Any person interested in sponsoring a purely scientific exhibit is requested to contact J. H. Richardson, Armour and Company, 1425 West 42nd Street, Chicago, before March 1, 1958. The Tours Committee has plans for several sightseeing and educational tours, two of which are to Abbott Laboratories and the Germ-Free Laboratories at Notre Dame University. The Ladies Activities Committee has planned a get-together "coffee and" on Monday morning, April 28, a tour through the world-famous Merchandise Mart, a style show at Marshall Field and Company, and a visit to Don McNeill's famous "Breakfast Club" broadcast.

The Special Meals Committee will make an effort to fulfill each request for a special breakfast, luncheon, dinner, or cocktail party, and will furnish you with private rooms, desirable menus, etc. The minimum prices for special meals are as follows: Breakfast—\$3.00, luncheon—\$3.50, and dinner—\$5.25. These prices include tax and gratuity. The Special Meals Committee will

appreciate your final reservations by February 1, 1958, so that announcements can be included in the official program. All correspondence regarding special eating functions should be addressed directly to Dr. Mary A. McWhinnie, Department of Biological Sciences, DePaul University, 1036 Belden Avenue, Chicago 14, Illinois.

Several rooms will be available for groups desiring to hold round tables, seminars, and other meetings or conferences not scheduled in the program. These rooms may be reserved by writing Dr. James B. Evans, American Meat Institute Foundation, 933 East 57th Street, Chicago 37, Illinois. The request should include the name of the convener or group leader, the subject or group title, the preferred time, estimated attendance, whether the session is to be "open" or "by invitation", and whether or not a slide projector and screen are required. Applications that cannot be made before April 21 should be made at the Information or Registration desk. A schedule of all such meetings will be posted at the Information desk.

The Local Committee has decided to make the President's Reception and Banquet a gala occasion. The Committee has made arrangements to have the President's Reception and a "Dutch treat" cocktail hour in the Grand Ballroom. The group will then meet in the Terrace Casino for the Banquet, followed by a floor show and three hours of dancing to the music of a big-name band. All of this entertainment will be included in the cost of the banquet ticket. Dress at the banquet will be optional.

The Local Committee has decided not to pre-register attendants at this meeting. The registration desk, located in the foyer on the second floor, will be open during the following hours:

Sunday, April 27	9:00 A.M. to 9:00 P.M.
Monday, April 28	8:00 to 12:00 A.M. 1:00 to 4:00 P.M.
Tuesday, April 29	9:00 to 12:00 A.M. 1:00 to 4:00 P.M.
Wednesday, April 30	9:00 to 12:00 A.M. 1:00 to 4:00 P.M.
Thursday, May 1	9:00 A.M. to 12:00 P.M.

Registration fees for the Chicago Meeting will be:

"Package deal" offered for joint purchase of banquet ticket and registration badge—at the time of registration only.

Members.....	\$12.00
Non-members.....	\$13.00

Graduate students..... \$8.00  
Single fees when purchased separately:

Members..... \$6.00 registration  
Non-members..... \$7.00 "  
Graduate students..... \$2.00 "  
Visiting wives and/or husbands and exhibitors  
no registration charge

Graduate students must have a letter of certification from their major professor in order to qualify for the reduced registration rate.

Banquet tickets.....\$7.50

Due to the large number of meeting rooms available, the Local Committee has arranged for two connecting press rooms, one of which will be used for private interviews. Arrangements for the Employment Office consist of two connecting rooms, one of which will be used for private interviews. The Local Committee will employ the services of professional doormen at all meeting rooms. These uniformed attendants will be on duty during all sessions. No one will be allowed to enter a meeting room without a registration badge or banquet ticket. The Local Committee, although given only one year to prepare for this meeting, is working hard to assure you a most enjoyable visit. They will appreciate your cooperation and constructive suggestions. The make-up of the Local Committee is listed below:

Chairman	J C. McCaffrey 1800 West Fillmore St., Chicago
Secretary	Mrs. Edward Haba
Ass't Chairman	C. J. Rickher
Vice-Chairmen	Ralph Noble Wm. Burrows
Treasurer	N. M. Szukala
Banquet	Dorothy Ann Huber
Exhibits	A. L. Coldiron Art Palmer J. H. Richardson
Hostess	Mrs. J. C. McCaffrey
Hotel Reservations	George Josh
Information	Helen Zaborowski
Publicity	J. C. Holper
Registration	C. J. Rickher
Round Table Sessions	J. B. Evans
Session Rooms	F. A. Leone
Smoker and Reception	Wm. Burrows
Special Meals	Mary McWhinnie
Tours	Betty O'Connor

#### SOCIETY OFFICERS, 1958

The Committee of Tellers consisting of John H. Brewer, Chairman, R. N. Doetsch and Helen B. Funk met in Baltimore early in December 1957, to count the ballots cast in the election of officers of the Society for 1958. The same committee tallied the vote on the special assessment of 50 cents per member to be used to help defray the travel expenses of American bacteriologists invited

to participate in the program of the 7th International Congress for Microbiology to be held in Stockholm August 4-9, 1958.

The following officers were elected: *President*, Harry Eagle; *Vice-President*, P. R. Edwards; *Secretary*, E. M. Foster; *Treasurer*, John Hays Bailey; *Councilors-at-large*, Margaret Pittman and Orville Wyss.

The tally of ballots follows:

#### President:

Harry Eagle	
Yes.....	2277
No.....	55
Ballots not voted.....	46
Total.....	2378

#### Vice-President:

P. R. Edwards.....	952
R. E. Hungate.....	597
O. B. Williams.....	742
Ballots not voted.....	87
Total.....	2378

#### Secretary:

E. M. Foster	
Yes.....	2312
No.....	14
Ballots not voted.....	52
Total.....	2378

#### Treasurer:

John Hays Bailey	
Yes.....	2157
No.....	33
Ballots not voted.....	188
Total.....	2378

#### Councilor-at-large:

R. H. McBee.....	860
E. J. Ordal.....	915
Margaret Pittman.....	1248
Orville Wyss.....	1411

The Council has elected C. F. Niven Jr. To the Council Policy Committee to serve from January 1, 1958 to December 31, 1960.

The vote on the special assessment for travel funds was:

For.....	1461
Against.....	780

Therefore, the referendum was passed and each member will be billed an additional 50 cents at dues paying time in 1958.

#### DIVISION NOMINATING COMMITTEES

Committees that were appointed by the time this issue went to press are listed below. These committees will report at their respective division business meetings during the Society's Annual Meeting in April.

### General Bacteriology

C. E. Georgi, Chairman  
Harry E. Morton  
M. P. Starr

### Bacterial Physiology

D. Perlman, Chairman  
C. B. Thorne  
P. Gerhardt

### Agricultural and Industrial

J. H. Silliker, Chairman  
Z. J. Ordal

### ATTENTION LOCAL BRANCH SECRETARIES

If you haven't already, will you please put the current secretary on your mailing list for reports of branch meetings and other items to be included in *Bacteriological News*?

Dr. Bailey kindly forwards material sent to him but postage and time would be saved if you'd send this material directly to E. M. Foster, 311 Bacteriology, University of Wisconsin, Madison 6, Wisconsin.

### BACTERIOLOGICAL NEWS DEADLINES

Production of Bacteriological News requires about two months. Therefore, material intended for publication in the next four issues must reach the secretary's office by the following dates:

#### Deadline

For April, 1958, issue—February 20, 1958  
For August, 1958, issue—June 20, 1958  
For November, 1958, issue—September 10, 1958  
For January, 1959, issue—November 1, 1958

#### NOTICE

Please report change of address, non-delivery of journals, routine inquiries, and similar matters to:

Mr. Francis C. Harwood  
Business Manager, S.A.B.  
Waverly Press, Inc.  
Mt. Royal and Guilford Avenues  
Baltimore 2, Maryland

#### Confirmed Future Meetings

1958—Chicago, April 27–May 1  
1959—St. Louis, May 10–15  
1960—Philadelphia, May 1–5  
1961—Chicago, April 30–May 4

Plan now to attend  
The 59th Annual Meeting of

### THE SOCIETY OF AMERICAN BACTERIOLOGISTS

Headquarters, Morrison Hotel, Chicago, Illinois  
April 27 to May 1, 1958

### LOCAL BRANCH OFFICERS FOR 1958

For the past several years the names and addresses of officers of local branches have been published in the January issues of the *News*. This procedure is far from satisfactory because most branches do not hold elections in time to report the names of new officers before the early November deadline for the January issue. Therefore, the names of officers for 1958 will be published in the April issue, by which time it is hoped a reasonably complete list of new officers can be obtained.

### ABOUT THE NEW DIRECTORY

The Secretary extends his personal regrets to anyone whose name was misspelled in the 1957 Directory and hopes for better luck next time. The directory lists were taken from the addressograph plates used for sending journals and other mail. Any errors in spelling or address should be reported immediately to Mr. F. C. Harwood, Waverly Press, Inc., Mt. Royal and Guilford Avenues, Baltimore 2, Maryland.

The Geographical listing, an innovation in the 1957 Directory, should be helpful to many. This section was prepared from the mailing list, which is arranged by states. The "miscellaneous" section under each state represents a collection of all localities having less than five names. Further breakdown was avoided to save space.

### CONGRESS ABSTRACT DEADLINES

The Executive Secretary of the 7th International Congress for Microbiology has notified your Secretary that 206 preliminary applications to attend the Congress were received from the U. S. before the September 30, 1957, deadline (see August, 1957, *Bacteriological News*). All of these applicants should have received the *Second Circular* in November, 1957, and all will be accepted provided they file binding applications by March 1, 1958. (The form for this "binding application" was included with the second circular material.)

Preliminary applications received after the September 30 deadline were filed as a waiting list in the order they arrived. These persons can participate in the Congress to the extent that the earlier applicants do not file binding applications before March 1, 1958.

Individuals who have indicated a desire to present a paper at the Congress and have received the second circular material are reminded to submit an abstract by January 31, 1958, to Dr. Riley D. Housewright, Chairman S.A.B. Program Committee, Fort Detrick, Frederick, Maryland. Abstracts should be typewritten double space and not over 350 words in length. Two copies must be provided. The S.A.B. Program Committee will forward the abstracts with its recommendations

to the Congress Program Committee. The latter body will make the final decision on acceptance or rejection of a paper only after all abstracts are in, that is in February, 1958.

### IMPORTANT ADDRESSES

#### *Chairman of Program Committee*

DR. RILEY D. HOUSEWRIGHT  
Fort Detrick, Frederick, Md.

#### *Chairman Local Committee, 1958 meeting*

MR. J. C. MCCAFFREY  
1800 W. Fillmore St.  
Chicago, 12, Illinois

#### *Committee on Materials for Visual Instruction in Bacteriology*

DR. HARRY E. MORTON  
Dept. of Bacteriology  
School of Medicine  
U. of Pennsylvania  
Philadelphia 4, Pa.

#### *Committee on President's Fellowship*

DR. ROBERT L. STARKEY  
Dept. of Agricultural Microbiology  
Rutgers University  
New Brunswick, New Jersey

#### *Director of Employment Bureau*

DR. MILTON J. FOTER  
Robert A. Taft Sanitary Engineering Center  
4676 Columbia Parkway  
Cincinnati 26, Ohio

### ANALYTICAL MICROBIOLOGY

The Analytical Microbiology group has affiliated with the Agricultural and Industrial Division. Abstracts of papers intended for presentation in this area should be marked accordingly.

Round-table discussions on problems in vitamin, antibiotic and disinfectant testing are being planned for the 1958 meetings.

Persons interested in information about the activities of the group can contact any of the members of the Committee on Analytical Microbiology listed below. Mr. John Gavin has changed his address, since the new directory was issued, to the Department of Research Therapeutics, Norristown State Hospital, Norristown, Pennsylvania.

Helen R. Skeggs, *Chairman*  
Jean W. Snyder  
John Gavin  
Roger Kersey  
William Alegnani  
William Elias  
Robert Gauthier

### BOTANICAL CONGRESS

The Ninth International Botanical Congress will be held in Montreal, Canada, from August 19 to 29, 1959, at McGill University and the University of Montreal. The program will include papers and symposia related to all branches of pure and applied botany. A first circular giving information on program, accommodation, excursions, and other detail will be available early in 1958. This circular and subsequent circulars including application forms will be sent only to those who write to the Secretary-General asking to be placed on the Congress mailing list:

Dr. C. Frankton  
Secretary-General  
IX International Botanical Congress  
Science Service Building  
Ottawa, Ontario  
Canada

### POSTDOCTORAL STUDY IN STATISTICS

Awards for study in statistics by persons whose primary field is not statistics but one of the physical, biological, or social sciences to which statistics can be applied are offered by the Department of Statistics of the University of Chicago. The awards range from \$3,600 to \$5,000 on the basis of an eleven month residence. The closing date for application for the academic year 1958-9 is February 15, 1958. Further information may be obtained from the Department of Statistics, Eckhart Hall, University of Chicago, Chicago 37, Illinois.

### LALOR FOUNDATION FACULTY AWARDS

For several years the Lalor Foundation has granted awards to younger members of staff or faculty of colleges and universities for research in the basic biological sciences. For 1958 the Foundation is offering forty summer or term awards for advanced study and research employing chemistry or physics to attack problems in any of the biological sciences. Preference will be given to younger men and women and to those who present programs in less explored fields. The upper age limit for appointment is forty years. For eligibility the applicant should have the experience and indicated research productivity corresponding to the Ph.D. degree and also have demonstrated an aptitude for teaching in science.

The applicant is to name the place at which the work would be done and the time thereof, subject to approval by the Foundation. The place of work may be at the applicant's own institution or at another institution, as may be for the best of the project.

The amount of the award is subject to circumstances but normally is not to exceed \$900 for a single man or a woman, \$1,100 for a married man working at his home institution, and \$1,250 for



a married man with principal program at another institution. Arrangements and expenses for transportation, residence, fees and other items are the responsibility of the award holder. A one-time renewal of an award may be a possibility.

From 1947 to 1955 the Foundation maintained a special series of Lalor postdoctorate summer fellowships at the Marine Biological Laboratory, Woods Hole, Massachusetts. It is hoped that anyone interested in working at the M.B.L. and who is eligible for a Lalor faculty research award will apply directly to the Foundation for an award of the present type.

Inquiries and requests for applications respecting Lalor Faculty Summer Research Awards should be addressed to the Director of the Lalor Foundation, 4400 Lancaster Pike, Wilmington 5, Delaware. Final date for receipt of completed applications is January 14, 1958. Notification regarding appointment may be expected by March 15.

#### **PUBLIC HEALTH TRAINING COURSES**

Eleven training courses in radiological health, air pollution, water pollution and food sanitation have been scheduled for January, February, and March, 1958 at the Robert A. Taft Sanitary Engineering Center in Cincinnati. The Sanitary Engineering Center is the prime environmental research laboratory of the U. S. Public Health Service. The training courses, part of a continuing program, cover not only basic education in the environmental engineering field, but also advanced work in specialized subjects.

A brief summary of the courses with microbiology content follows:

**Microbiological and Chemical Examination of Milk and Dairy Products**, Feb. 3-7, for professional personnel with a wide background in sanitary bacteriology who are responsible for milk analyses and dairy products examination at state or local level. The course includes laboratory experiments in special procedures employed in detecting bacterial groups or species of special significance in the control of milk quality.

**Laboratory Methods for Prevention and Control of Food-Borne Disease**, Feb. 10-14, presenting advanced technical information of special interest to laboratory and supervisory personnel concerned with examination of foods for bacteriological or chemical contaminants. Emphasis will be given to the methods, standards, and operating procedures applicable to a food sanitation program. The relation of the laboratory to inspection, grading, and licensing of food establishments will be included in the study.

**New Techniques in the Bacteriological Examination of Water**, Jan. 27-31, for professional bacteriologists and others with a wide background in sanitary bacteriology who are in responsible

positions in state, municipal and other laboratories engaged in water analysis. Subjects include discussion and laboratory demonstration and evaluation of the membrane filter technique of water examination, as well as examination of water for the coliform group and the enterococcus group by fermentation methods.

**Advanced Training for Sanitary Engineers in Water Supply and Water Pollution**, March 3-14, for sanitary engineers and others with a wide background in water quality management. The course includes study of the organization and operation of water pollution and industrial waste surveys. The bacteriological, chemical and biological phases of sanitary engineering problems are integrated with the engineering aspects. The administration of stream pollution abatement programs and the interpretation of data are discussed. Opportunity is provided for presentation and discussion of local problems.

Admission of qualified individuals to all courses is governed largely by priority of applications. No tuition fee is charged. Applications should be sent to Chief, Training, Robert A. Taft Sanitary Engineering Center, 4676 Columbia Parkway, Cincinnati 26, Ohio.

#### **CAREER IN BACTERIOLOGY FILM**

The producer of the film "A Career in Bacteriology" shown at the Detroit meeting has offered to reserve sufficient prints of the film to permit a showing in each of the Local Branch areas. For this there would be no charge except return postage. New local branch officers who have not received the notice of this and who desire a copy of the film for a branch meeting should contact Mr. E. L. Richardson of the Audio-Visual Center, Indiana University, Bloomington.

Contrary to the impression which some have gained for showings other than the one mentioned above, it is not necessary to purchase the film although copies are available for those who desire to purchase. If the film is not available in rental sources in your region, a copy may be rented directly from the producer at \$5.50 per week plus transportation; the catalog number is ESC 484.

#### **WANTED: INFORMATION ON SUMMER COURSES**

There does not appear to exist any widely circulated checklist of summer offerings in bacteriology and microbiology, valuable though such a list is certain to be to both teachers and students. As a service to interested persons, we are inviting the cooperation of all departments or institutions that offer summer courses. **Kindly address the following information to Dr. Frank Lanni, Department of Bacteriology, Emory University, Georgia:**

1. Name and address of suitable contact (department chairman or person in charge of course).

2. Name and catalogue number of course.
3. Type of student for whom intended.
4. Dates.
5. Fees (in-state and out-of-state).
6. Whether firmly scheduled or contingent (date of decision) on minimal number of applicants or other consideration.

Deadline for receipt of this material is January 24, 1958.

A summary will be published in the April 1958, issue of *Bacteriological News*.

#### NEWS ABOUT OUR MEMBERS

M. L. Gray, formerly of the Department of Veterinary Pathology at Michigan State University, is now Assistant Bacteriologist at the Veterinary Research Laboratory, Montana State College, Bozeman, Montana. Dr. Gray recently

spent almost a year as a Fulbright Research Fellow at the Veterinärhygienisches und Tierseuchen-Institut der Justus Liebig-Universität, Giessen, Germany. While in Germany Dr. Gray worked on listeriosis and participated in a symposium on the subject held in June, 1957, at Giessen.

#### NECROLOGY

Dr. Elizabeth Ingersoll Parsons died in Atlanta, Georgia, on August 6, 1957, at the age of 63. Dr. Parsons received her Sc.D. degree at Johns Hopkins University in 1925 and was for some years Director of the State Hygienic Laboratory at Charleston, West Virginia. At the time of her death she was Bacteriologist in Charge, General Diagnostic Bacteriology Unit, Communicable Disease Center, U. S. Public Health Service at Chamblee, Georgia.

## NEWS AND MEETINGS OF LOCAL BRANCHES

#### Colorado-New Mexico-Wyoming Branch (Mildred W. Taylor, Secretary-Treasurer)

**April 13, 1957.** The Spring meeting of the branch was held with the Colorado-Wyoming Academy of Science in the Veterinary Medicine Building at Colorado State University, Fort Collins, Colorado. The following papers were presented:

1. Cultural and biological properties of a possible new member of the genus *Nocardia*. Wayne A. Stenbeck, University of Denver, Denver, Colorado.
2. Identification of a virus isolated from a case of Shipping Fever in cattle. Yoshihiro Ozawa and T. L. Chow, Colorado State University, Fort Collins, Colorado.
3. Determination of nutritional substrates found in sewage by electrophoresis. Eric B. Fowler, Los Alamos, New Mexico.

**September 14, 1957.** The Fall meeting of the Branch was held at Lovelace Clinic, Albuquerque, New Mexico. During the morning business session, the following officers were elected for the coming year:

*President*, Mrs. Margaret P. Stimmel, Colorado State University, Fort Collins, Colorado; *Vice-President*, Leroy Maki, University of Wyoming, Laramie, Wyoming; *Secretary*, Mildred W. Taylor, Clinical Laboratory, Veterans Administration Hospital, Denver, Colorado; *Treasurer*, Mary V. Rothlauf, Department of Microbiology, University of Colorado, Denver, Colorado; *Councilor*, James L. Tong, Bacteriology Department, Veterans Administration Hospital, Denver, Colo-

rado; *Councilor-elect*, Sumner Morrison, Colorado State University, Fort Collins, Colorado.

Presented at the afternoon session were the following scientific papers:

1. The diagnosis of virus diseases in New Mexico. Daniel B. Johnson, Director, New Mexico State Public Health Laboratory, Albuquerque, New Mexico.
2. Some experiences with the laboratory diagnosis of enteric diseases. Wen-Lan Wang, Chief, Bacteriology Department, Denver General Hospital, Denver, Colorado.
3. A rapid mouse test for the diagnosis of pulmonary tuberculosis. David Gale, Director, Bacteriology Laboratories, Veterans Administration Hospital, Albuquerque, New Mexico.
4. Laboratory experience in a few selected cases of fungus infection. James L. Tong, Chief, Bacteriology Laboratory, Veterans Administration Hospital, and Professor of Bacteriology, University of Denver, Denver, Colorado.
5. Some problems of the diagnostic laboratory and possible solutions. William E. Clapper, Director, Bacteriology Department, Lovelace Foundation Clinic, Albuquerque, New Mexico.

#### Illinois Branch (C. J. Rickher, Secretary)

**October 25, 1957.** The Society of Illinois Bacteriologists held a joint meeting with the Peoria Section of the American Chemical Society at Pabst Blue Ribbon Hall in Peoria, Illinois. During the morning everyone was invited to tour the Northern Utilization Research Branch Laboratory. The

afternoon scientific session consisted of the following papers:

1. The effect of *Candida krusei* and Aureomycin on the survival of embryonated eggs. Claire E. Forney and L. R. Hedrick, Dept. of Biology, Illinois Institute of Technology, Chicago 16, Illinois.

2. Agglutination of some *Hansenula* yeasts involving methylene blue, metallic ions and acidity. H. J. Ferlin and L. R. Hedrick, Biology Department, Illinois Institute of Technology, Chicago 16, Illinois.

3. The basis of shield formation in virus hemagglutination. W. R. Chesbro and L. R. Hedrick, Department of Biology, Illinois Institute of Technology, Chicago 16, Illinois.

4. Factors affecting the choice of a plating medium for the enumeration of *Salmonella* from foods. Welton I. Taylor, John H. Silliker and Horace P. Andrews, Swift & Company, U. S. Yards, Chicago, Illinois.

5. Ristocetin: Effect of gamma globulin on *in vivo* activity. J. C. Holper, C. J. Ricker and J. C. Sylvester, Abbott Laboratories, Research Division, North Chicago, Illinois.

6. Ristocetin: A microbiologic comparison of Ristocetins A and B. W. E. Grundy, J. C. Holper, Eleanor F. Alford, C. J. Rickher, Charlene M. Votjko and J. C. Sylvester, Abbott Laboratories, Research Division, North Chicago, Illinois.

7. Preliminary studies on the biochemical bases of virulence in the group A hemolytic streptococci. J. M. Leedom, B. S. Tepper and S. S. Barkulis, University of Illinois, College of Medicine, Chicago, Illinois.

8. Some biological and morphological aspects of a group A streptococcal L-form. C. Panos and S. S. Barkulis, University of Illinois, College of Medicine, Chicago, Illinois.

9. Curing of phage-infected bacteria by chloramphenicol. A model for virus chemotherapy. R. C. Ting, Department of Bacteriology, University of Illinois, Urbana, Illinois.

10. Phosphorylase production in cultures of *Neisseria perflava* NRRL B-1458. M. Slodki, R. M. Ward and R. G. Benedict, Fermentation Section, Northern Utilization Research and Development Division, Peoria, Illinois.

11. Changes occurring during sporulation of *B. cereus* var. *terminalis*, with special reference to the oxygen demand. H. M. Nakata, University of Illinois, Urbana, Illinois.

12. The conversion of D-glucose to L-rhamnose in streptococcal cell walls. W. H. Southerd, J. A. Hayaishi and S. S. Barkulis, University of Illinois, College of Medicine, Department of Biological Chemistry, Chicago, Illinois.

13. The differential effects of various poisons in

the inhibition of cell division and the induction of respiratory deficiency. C. C. Lindegren, Biological Research Laboratory, Southern Illinois University, Carbondale, Illinois.

After dinner Dr. Frank H. Stodola, of the Fermentation Section, Northern Utilization Research Laboratories, addressed the branch on "The Chemistry and Physiological Effects of the Gibberellins."

**Maryland Branch** (B. J. Dembeck, Jr., Secretary-Treasurer)

**October 23, 1957.** Members of the branch met in the evening at Goucher College to hear:

1. The effects of ultra violet irradiation on the growth cycle of *E. coli* K-12. Anne Estelle Rider, Dept. of Medicine, University of Maryland School of Medicine, Baltimore, Maryland.

2. Past and present concepts regarding immunization against group B arbor (arthropod borne) viruses. Benjamin H. Sweet and C. L. Wiseman, Jr., Dept. of Microbiology, University of Maryland School of Medicine, Baltimore, Maryland.

**Michigan Branch** (Elizabeth J. Cope, Secretary-Treasurer)

**October 4, 1957.** The program of the meeting, held in Giltner Hall, Michigan State University, follows:

1. The preparation of spores of putrefactive anaerobe 3679. Harold L. Sadoff, Department of Bacteriology and Public Health, Michigan State University.

2. Utilization of amino acids by *Brucella*. R. Evelyn Sanders and I. F. Huddleson, Department of Bacteriology and Public Health, Michigan State University.

3. Growth stimulants for *Mycobacterium smegmatis*. W. G. McCullough, Department of Microbiology, Wayne State University.

4. Rapid identification of entero-pathogenic *E. coli* by the fluorescent antibody technique. JoAnne Whitaker, R. H. Page, C. S. Stulberg and W. W. Zuelzer, Child Research Center of Michigan.

5. Behavior of echo viruses in 6 strains of human cells. R. H. Page, C. S. Stulberg and L. Berman, Child Research Center of Michigan and the Department of Pathology, Wayne State University.

6. Intracellular labeling of Ehrlich ascites tumor cells with radiochromate. Ann-Louise Jackson and P. C. Rajam, University of Michigan.

7. Studies on L-strain fibroblasts in suspension culture. Robert J. Kuchler and Donald J. Merchant, Department of Bacteriology, University of Michigan.



**Eastern Missouri Branch** (A. C. Sonnenwirth, Secretary-Treasurer)

**March 19, 1957.** The 67th meeting of the Branch was held at Scientific Associates, Inc., in St. Louis. The speakers and topics were:

1. Some observations concerning bacterial contamination of liquid detergent systems. Theodore F. Wetzler, Vestal Laboratories, St. Louis.
2. The role of the public health laboratory in civil defense. Nicholas D. Duffett, St. Louis Public Health Laboratories.

**May 18, 1957.** The 68th meeting occurred at the School of Medicine, University of Missouri, in Columbia, Missouri. The program consisted of:

1. Characteristics of chromogenic acid-fast bacilli. Marvin Rogul, Victor Cabelli and Robert Keller, Department of Microbiology, School of Medicine, University of Missouri.
2. Tissue culture methods for the isolation and neutralization of viruses. Irma C. Adams, Missouri State Division of Health Laboratories.
3. Antibiotic susceptibility testing. Film. Charles Pfizer & Company.

**New Jersey Branch** (Madelon R. Grimm, Secretary)

**October 23, 1957.** Dr. Seymour Cohen addressed the Branch meeting on "Molecular Bases of Parasitism in some Virulent Phage Infections." The meeting was held at the Institute of Microbiology, Rutgers University, New Brunswick, New Jersey.

**New York City Branch** (J. S. Kiser, Secretary)

**October 22, 1957.** The Memorial Center Auditorium, 444 East 68th Street, was the site of the 79th meeting of the Branch. Dr. Igor Tamm, Rockefeller Institute, was moderator of a symposium on "Recent Developments in Virology and Tissue Culture." Speakers and their subjects were:

1. The importance of infecting dose on virus-induced Rous Sarcoma. Frank J. Rauscher and Vincent Group, Rutgers University.
2. The functional significance of phage D N A synthesized in the presence of Chloramphenicol. Jun-Ichi-Tomizawa, Carnegie Institute.
3. Studies on the measles virus. Jack W. Frankel, Merck, Sharp and Dohme.
4. Recent studies on the enteric viruses. Joseph L. Melnick, Yale University.

**Northwest Branch** (Jane Nishio, Secretary-Treasurer)

**September 20 and 21, 1957.** A two-day meeting was held on the campus of the University of Washington in Seattle. New officers elected for 1957-58 were:

**President:** L. Leon Campbell, Jr., Department of

Horticulture, State College of Washington, Pullman, Washington; **Vice-President:** J. J. Munoz, Department of Bacteriology, Montana State University, Missoula, Montana; **Secretary-Treasurer:** Jane Nishio, Rocky Mountain Laboratory, Hamilton, Montana. V. A. Cherrington, Department of Bacteriology, University of Idaho, Moscow, Idaho, is serving his second year as councilor. Louis DS Smith, Montana State College, is alternate councilor.

The following papers were presented at the two meetings:

1. Transamination by *Pseudomonas aeruginosa*. A. M. MacQuillan and J. J. R. Campbell, Division of Animal Science, The University of British Columbia, Vancouver, B. C.
2. The enumeration of thermophilic bacteria by the plate count method. N. E. Neilson, M. F. MacQuillan and J. J. R. Campbell, Division of Animal Science, The University of British Columbia, Vancouver, B. C.
3. Uptake and release of  $P^{32}$  by tissue cultures of human epithelial-like cells (Detroit-98) infected with polio or vaccinia viruses. B. H. Hoyer, D. B. Ritter and E. T. Bolton, Rocky Mountain Laboratory, Hamilton, Montana.
4. Some observations on the use of dehydrated media. W. Levin, G. A. Brandon and A. Karlstrom, Portland, Oregon.
5. The relation of delayed hypersensitivity to arthus-type reactions. S. B. Salvin and J. Nishio, Rocky Mountain Laboratory, Hamilton, Montana.
6. Glucose fermentation by an aquatic Myxobacterium. R. L. Anderson and E. J. Ordal, Department of Microbiology, University of Washington, Seattle, Washington.
7. Use of virus diagnostic laboratory as an aid in the differential diagnosis of polio and non-paralytic polio-like diseases. W. Giedt, D. Wysham and J. Allard, State Department of Health, Seattle Washington.

**Eastern Pennsylvania Branch** (Theodore G. Anderson, Secretary-Treasurer)

**October 22, 1957.** The Branch met at the University of Pennsylvania to hear "Myxomatosis—the Evolution of a Virus Disease" by Dr. Frank Fenner, Chairman, Department of Microbiology, the Australian National University, Canberra, Australia.

**Rio de Janeiro Branch** (Laerte de Andrade, Secretary-Treasurer)

**July 10, 1957.** The meeting of the branch was held at the National Museum in conjunction with the Brazilian Society for the Advance of Science. The scientific session consisted of the following papers:

1. Strains of Coxsackie virus of B group occurring

in Rio de Janeiro. Paulo de Gois, Julia Vasconcelos and J. Travassos, Instituto de Microbiologia da Universidade do Brasil.

2. Bacterioimpedience (bacteriostasis) of stain on *Erysipelotrix rhusiopathiae*. Genesio Pacheco and Maria de Lourdes Santos, Instituto Oswaldo Cruz do Ministerio da Saude.

3. Serological types of *Salmonella* and *Shigella* reported in Rio de Janeiro. Gobert Araujo Costa and Ivone Rocco Suassuna, Instituto de Microbiologia da Universidade do Brasil.

4. Comparison of pathogenic and non-pathogenic *Mycobacterium* following "in vitro" experiments. Laerte de Andrade and Ivo Ferreira, Instituto de Microbiologia da Universidade do Brasil.

5. Differentiation of *Listeria monocytogenes* and *Erysipelothrix rhusiopathiae*. Vinicius Moreira Dias and Niber da Paz M. da Silva, Instituto Oswaldo Cruz do Ministerio da Saude.

6. Occurrence of *Streptococcus* of A. Group in normal children in Rio de Janeiro. Carlos Sole Vernin and H. Silva Castro, Instituto de Microbiologia da Universidade do Brasil.

July 12, 1957.

1. Multiplication of bacteriophage in protoplasts. H. Mahler.

2. Preservation of fish with chlorotetracyclin. Study of the possibility of preservation with a product containing aureomycin (Acronize B.I.) M. C. Santos Veloso and J. Rosemberg, Escola Nacional de Quimica.

3. Identification by paper chromatography of organic acids from fermentation. A. D. Panek, Escola Nacional de Quimica.

4. Fermentation of syrups by yeasts. A. C. Ramos Barreto, Escola Nacional de Quimica.

Washington Branch (Howard Reynolds, Secretary-Treasurer)

October 22, 1957. The Branch held its 217th meeting at the Officer's Club of Walter Reed Army Medical Center. Dr. Sara E. Branham, National Institutes of Health, spoke "In Defense of Epimetheus."

## BOOKS AND REVIEWS

**Annual Review of Microbiology**, Volume 11, C. E. Clifton, Editor, Palo Alto: Annual Reviews, Inc., 1957, 536 pp., \$7.00.

**Bacterial Fermentations**, H. A. Barker, New York: John Wiley and Sons, Inc., 1957, 95 pp., \$3.00.

**The Carbohydrates, Chemistry, Biochemistry, Physiology**, Ward Pigman, Editor, New York: Academic Press, Inc., 1957, 902 pp., \$20.00.

**Fundamentals of Microbiology**, Sixth Edition, Martin Frobisher, Philadelphia: W. B. Saunders Co., 1957, 615 pp. \$6.50.

**Zinsser's Bacteriology**, Eleventh Edition, D. T. Smith, N. F. Conant, and Associates, New York: Appleton-Century-Crofts, Inc., 1957, 953 pp. \$12.00.

**Advances in Enzymology**, Volume 18, F. F. Nord, Editor, New York: Interscience Publishers, Inc., 1957, 435 pp., \$9.00.

As is generally true with compilations or reviews of this type, only a few are pertinent to microbiology. However, this volume probably has more reviews of interest to the microbial physiologist than most.

E. F. Hartree's review, Cytochrome in Higher Plants, presents as good an integration of the cytochrome components and cellular respiration as can be found; while Singer, Kearney and Massey's review of the Newer Knowledge of Succinic Dehydrogenase makes many references to

microorganisms while covering the development of the field chiefly in mammalian tissues. Some may find J. M. Wiame's excellent review on the biosynthetic role of the tricarboxylic acid cycle a bit frustrating because it is written in French, but it does sustain the deliberate attempt to give the "Advances" an international flavor. Lester J. Reed's review, The Chemistry and Function of Lipoic Acid, should be most welcome. Here is an up-to-date chronological development of the information on lipoic acid by one of the workers most familiar with it.

S. G. KNIGHT

**Man Against Germs**, A. L. Baron, New York: E. P. Dutton and Co., Inc., 1957, 320 pp.

Although primarily a historical account of some of our major epidemic diseases, this narrative deals with host-parasite biology from the hypothetical origin of life on this planet to a projected futuristic symbiotic host-parasite equilibrium. The author begins with a highly dramatized chapter on the geological formation of the earth, the geophysical synthesis of a molecule of living protoplasm, the evolution of this primordial life into multicellular green plants and animals including man. He visualizes present day parasitic viruses as direct lineal descendants of the first living molecule, whereas other germs only turned to the easy

parasitic mode of life after earlier evolutionary struggles as saprophytes. In his closing chapter Dr. Baron visualizes the time in the evolutionary future when "all our disease germs will change from antagonism to coexistence, and turn from dangerous bits of alien life into inconspicuous particles within our living cells." In between these flights into scientifically based fantasy the author presents many interesting and frequently gruesome facts about his selected diseases, and about the failures as well as the successes of men in their efforts to combat these diseases.

Dr. Baron uses rather colorful designations for his germs. The cholera vibrio becomes the *Avid Germs from India*; the tubercle and leprosy bacilli are the *Wax-Coated* and the *Unclean Germs*; the plague bacilli are the *Reluctant Germs*; and, of course, the syphilis spirochetes are the *Germs of Love*. A total of thirteen or more diseases are discussed, from both historical and current status viewpoints. Vivid word pictures are drawn describing the psychological and economic consequences, as well as the confusion and controversy associated with the misery and death caused by great plagues of epidemic disease.

Frequently the author seems to take a special delight in describing the futile and the controversial, rather than the successful, efforts of men to understand or to control the disease organisms. And when these controversial efforts are made by egocentric scientists or medical doctors who refuse to consider facts contrary to their own erroneous beliefs, the individuals and their errors are spot lighted even more vividly than are the efforts of those who finally disprove the erroneous beliefs. Thus we find Professor Pettenkofer's controversial *Law of the Soil Water* discussed more extensively than Koch's successful proof of the etiology of cholera. And Koch's fall from grace as a result of his Tuberculin Therapy is spotlighted possibly more than his bacteriological successes. Also Dr. Benjamin Rush gets a thorough working over for his *Morbid Atmosphere* to explain, and his murderous purgings and bleedings to treat yellow fever. In this respect Dr. Baron's *Man Against Germs* differs from the hero worship approach of many other historians of disease, and should be recommended reading for those who are prone to become scientific hero worshippers.

The dust cover states that Dr. Baron's history of the major plagues . . . "is dramatic and scientifically accurate." Insofar as the historic source material is accurate, the dramatic and historical aspect of this statement can be accepted. However, it seems unfortunate to the reviewer that, for the sake of dramatic effect, the author should give the false impressions that are implied in such statements as: (about typhoid) . . . "their breeding places in sewage . . ." (etc.); and about Typhus . . . "the germs transferred from the tick to the

louse and so to man"; or . . . "Ricketts found the germs of typhus fever, isolated and cultured them" . . . These are minor criticisms which will not be obvious to the laity, but the statements will be questioned even by elementary students of host parasite biology. However, in general, the book is interestingly written and should appeal to those who like their medical history served up in a dramatic fashion.

V. T. SCHUHARDT

**Methods of Biochemical Analysis, Volume 4,** David Glick, Editor, New York: Interscience Publishers, Inc., 1957, 362 pp., \$8.50.

"Methods of Biochemical Analysis" appears approximately annually, and purports to make available a critical evaluation of analytical methods of current usefulness, together with experimental details of a recommended procedure (or procedures) sufficient to permit the laboratory worker to carry out the analysis without reference to other sources. In this, the fourth volume of the series, the following topics and authors are represented: Determination of Carotene (E. M. Bickoff); Determination of Vitamin A (A. Embree, R. Ames, W. Lehman, and L. Harris); Measurement of Polyunsaturated Fatty Acids (T. Holman); Determination of 17,21-Dihydroxy-20Ketosteroids (A. Silbur and C. Porter); The pH-Stat and Its Use in Biochemistry (C. F. Jacobson, J. Leonis, K. Linderström-Lang and M. Otteson); Assay of Sulfatases (K. S. Dodgson and B. Spencer); Determination of Serum Acid Phosphatases (W. H. Fishman and H. M. Davidson); Determination of Amino Acids by Bacterial Amino Acid Decarboxylases (E. F. Gale); and Determination of Succinic Dehydrogenase Activity (T. P. Singer and E. B. Kearney). Of these, perhaps the first four will have little appeal to most microbiologists; the latter five will be of greater use. The description of the pH-stat, in particular, provides details of the theory, construction and suggested applications of an instrument that should have many applications in microbiological research, and particularly so in the physiological areas. The remaining essays are useful resumes of analytical methods for sulfatases, phosphatases, succinic dehydrogenase and those amino acids for which bacterial decarboxylases are known.

The treatment of these topics is uneven. Certain of them (e.g. the chapter on sulfatases) fulfill the announced purpose of providing complete and self-contained analytical methods; others of them would scarcely obviate the necessity for reference to original papers, but do supply a useful bibliography to these. Unquestionably, therefore, the book will be useful to those few individuals whose major research interests lie within the few areas it covers; for others, its accessibility through general libraries will certainly suffice. A cumulative

index (both subject and author) provides ready information concerning topics covered in past volumes, and is a valuable feature of these books.

It appears to this reviewer that the general thesis under which serial reviews of the present type are published needs reexamination. One is nowadays faced frequently with the alternatives of buying an expensive book of 400 or more pages in order to have available a 20 to 40 page article of particular interest, or of foregoing the convenience of a personal copy of the material. Neither budgets nor office shelf space permit long-term commitment to the former alternative. It would appear that smaller and less expensive volumes, each dealing with closely related methodologies, and perhaps paper-bound in view of the temporary value of such collections in a constantly changing field, would obviate the objections cited above. Such a plan would also permit more ready revision of those portions of such volumes that now rapidly become outdated, whereas articles of permanent value could still be collected and published at suitable intervals in more lasting form. At the present rate of appearance of reviews, advances, etc., the temptation is strong to ignore them in favor of indices such as Chemical Abstracts, which, indeed, eventually lists the contributions that appear in such volumes.

ESMOND E. SNELL

**Microbial Ecology**, Seventh Symposium of the Society for General Microbiology, edited by R. E. O. Williams & C. E. Spicer, New York: Cambridge University Press, 1957, 388 pp., \$6.50.

The title of this volume is hardly indicative of the wealth of current knowledge and philosophical views summarized by 18 authors in 17 papers dealing with various aspects of microbiology. Although all chapters are recommended as good reading and for future reference, the contents of some are not indicated by the titles.

"Microbial Ecology" fails to treat a good many topics which one would expect to find under such a title, but it compensates by treating many subjects one would not look for under this heading. For example, D. L. Duddington has a fascinating chapter on predacious fungi which capture nematodes, rotifers, and protozoa. The chapter by H. T. Tribe is devoted almost exclusively to telling how Cellophane is attacked by soil microbes. R. Y. Stanier and G. Cohen-Bazire present some significant facts and interesting speculations on the role of light in the microbial world, with particular reference to the functions of photosynthetic pigments, without saying much about how light affects the distribution of microorganisms in nature. In the chapter on "Nutritional aspects

of microbial ecology," Jane Gibson discusses primarily the interdependence of microbial species for essential metabolites in soil and in the rumen.

The following contributions are listed as being more representative of the chapter headings: The genome as a component of the ecosystem, by C. J. Shepherd; Influence of hydrogen-ion concentration and oxidation-reduction conditions on bacterial behaviour, by L. F. Hewitt; Microorganisms resisting high concentrations of sugars or salts, by M. Ingram; The action of pressure and temperature, by F. H. Johnson; The ecological significance of antibiotic production, by P. W. Brian; The relations of bacteriophages to bacterial ecology, by E. S. Anderson; Ecological factors and the survival of fungi, by L. E. Hawker; Some factors in the life of free-living protozoa, by J. A. Kitching; The role of plant hosts in microbial ecology, by F. C. Bawden; The biological influences of man and animals on microbial ecology, by R. Lovell; Ecology of viruses, by C. H. Andrewes; The selective action on bacteria of various factors inside and outside the animal body, with particular reference to their effect on virulence, by G. S. Wilson; and some factors influencing the spread of plant viruses by arthropod vectors, by K. M. Smith.

As a whole, the compilation is relatively free of platitudinous generalizations. New viewpoints expressed by the authors in bringing their specialties to bear upon the central theme of the volume are most refreshing. Each chapter has appended an adequate bibliography complete with titles to cited references, but it fails to give inclusive pagination. The value of the volume for reference purposes would be increased by a subject and an author index.

CLAUDE E. ZOBELL

**Principles of Immunology**, John E. Cushing and Dan H. Campbell, New York: McGraw-Hill Book Co., 1957, 344 pp., \$6.50.

Dr Cushing (a biologist) and Dr. Campbell (an immunochemist) have collaborated to write this relatively short book entitled "Principles of Immunology." Unlike most works in this field it is aimed neither at the advanced student nor at the mature medical scientist but at senior college students concentrating in biology. Its purpose is to introduce such students to the "basic principles and concepts of the immunity mechanisms," and the authors have succeeded admirably in achieving this aim. The first part of the book is devoted to an introductory survey of the more important principles involved in immunology and includes a review of those aspects of the physical sciences necessary for their understanding. The second part, entitled "Biological Immunology," describes



the complex relationships of immunological phenomena to various biological problems. The scope of the discussion may be inferred from a listing of some of the chapter headings: "The Genetic Control of Antigenic Structure," "Antigens and Evolutionary Studies," "The Embryonic Development of Antigens and of the Immune Mechanism" and "Comparative Immunology." The third part, comprising roughly the last third of the book, is devoted to a consideration of the fundamental principles of immunochemistry as applied to the nature of antigens and antibodies and to their mutual reactions. Each chapter is followed by an

adequate bibliography, and there is a good working index. Typographical errors are rare.

Although but little medical immunology is discussed as such, this book has something of definite value to offer to the medical scientist, for it presents immunological principles from a refreshingly new point of view. Since the authors have understandably sought to minimize the discussion of controversial problems the presentation of some subjects, such as hypersensitivity, has perhaps been over-simplified. All in all, this is a provocative and valuable book.

F. S. CHEEVER, M.D.

---

## NEW MEMBERS

---

### New Active Members

September 17, 1957 through November 6, 1957

Amelunxen, Remi E., 8120 Dearborn, Prairie Village, Kan.

Apgar, Joan, 18665 Gainsborough Ave., Detroit 23, Mich.

Barrett, James P., 959 West 37th St., Erie, Pa.

Borgstrom, Georg A., 535 Glenmoor Rd., Apt. 141A, East Lansing, Mich.

Campsall, Dr. E. W. Robt., 513 Oakridge Drive, Suburban Service #1, London, Ont., Canada

Clemmer, Dorothy I., 830 Foucher St., New Orleans 15, La.

Countryman, Joan L., Biology Division, Oak Ridge Nat'l. Lab., P. O. Box Y, Oak Ridge, Tenn.

De la Rosa, Luis, Presa Cointzio #31 Dpto. 1, Colonia Irrigacion, Mexico City 10, Mexico

de Torris, Dolores Rivera, Box 10464, Caparra Heights, San Juan, P.R.

Donch, John J., 1672 Oxford Ave., Apt. #16, Berkeley 1, Calif.

Erling, Homer G., Animal Pathology Laboratory, Box 304, Mesa, Ariz.

George, Lillian O., 99-21 37th Ave., Corona 68, Queens, Long Island, N. Y.

Ghitter, Leah R., 4444 Sansom St., Philadelphia 4, Pa.

Halde, Carlyn J., Div. of Dermatology, B-2-119, UCLA Medical Center, Los Angeles 24, Calif.

Hamilton, Rodney D., 508 Blinn Ave., Frankfort, Ind.

Hokama, Yoshitsugi, Department of Radiology, Univ. of Calif. Medical Ctr., Los Angeles 24, Calif.

Lockingen, Lloyd S., Bio-Medical Division, Argonne National Lab., Lemont, Ill.

MacDonald, Russell E., Dept. of Dairy Industry, Cornell University, Ithaca, N. Y.

Markovetz, Allen J., Dept. of Microbiology, School of Medicine, Univ. of South Dakota, Vermillion, S. D.

Millan, Sylvia, 123 Barcelona St., Santurce, P. R.

Molenda, John R., Bacteriology Dept., Utah State Univ., Logan, Utah

Nelson, George H., 412 Biggs Ave., Frederick, Md.

Noe, Frederick F., 593 Taylor Road, University Heights, New Brunswick, N. J.

O'Connor, Raymond F., 188 Hillside Ave., River Edge, N. J.

Pappagianis, Demosthenes, Univ. of California, Naval Biological Lab., Naval Supply Center, Oakland, Calif.

Rappaport, Irving, Dept. of Botany, Univ. of California, Los Angeles 24, Calif.

Rich, Harold M., 6930 S Shore Dr., Chicago, Ill.

Santorio, Thomas, Penna. State Univ., Dept. of Bacteriology, University Park, Pa.

Selkon, Joseph B., Postgraduate Medical School, Hammersmith Hospital, London W. 12, England

Senterfit, Laurence B., Box 145, The Johns Hopkins Hospital, Baltimore 5, Md.

Sibley, Charles B., Hall #5 Labs., Louisville General Hosp., Louisville, Ky.

Silverman, Melvin B., 116 Standart St., Syracuse 10, N. Y.

Snyder, H. Donald, Troy Chemical Co., 338 Wilson Ave., Newark, N. J.

Spendlove, Rex S., Dept. of Bacteriology, Univ. of Connecticut, Storrs, Conn.

Staples, Sarah Anne, 206 College St., Cuthbert, Ga.

Stenback, Wayne A., Dept. of Microbiology, Rm

- M-264, Medical Sciences Bldg., University of Missouri, Columbia, Mo.
- Suiter, Cdr. Lila E., MSC, USNR, U.S. Naval Hospital, Oakland 14, Calif.
- Surdy, Theodore E., 1116 South 23rd St., Lafayette, Ind.
- Swartz, Harold E., RFD #4, Box 438A, New Brunswick, N. J.
- Takahashi, Hajime, Inst. of Applied Microbiology, University of Tokyo, Bunkyo-ku, Tokyo, Japan
- Watson, John A., 1935 Mary Catherine Ave., Ypsilanti, Mich.
- Winter, John A., 118 W. Broadway Rd., Madison, Wisc.
- Wolgin, Aaron, 406 Solano Dr. S.E., Albuquerque, N. W.
- Yamamoto, Tats, Dept. of Bacteriology, Univ. of Alberta, Edmonton, Alberta, Canada
- Yasui, Tuneo, Dept. of Agric. Chemistry, Univ. of Tokyo, Bunkyo-ku, Tokyo, Japan

## *Standing Notices*

### **BACTERIOLOGICAL NEWS DEADLINES**

Production of Bacteriological News requires about two months. Therefore, material intended for publication in the next four issues must reach the secretary's office by the following dates:

#### *Deadlines*

For April, 1958, issue—February 20, 1958

For August, 1958, issue—June 20, 1958

For November, 1958, issue—September 10, 1958

For January, 1959, issue—November 1, 1958

---

### **NOTICE**

Please report change of address, non-delivery of journals, routine inquiries, and similar matters to:

Mr. FRANCIS C. HARWOOD

*Business Manager, S.A.B.*

Waverly Press, Inc.

Mt. Royal and Guilford Avenues

Baltimore 2, Maryland

### **CONFIRMED FUTURE MEETINGS**

1958—Chicago, April 27–May 1

1959—St. Louis, May 10–15

1960—Philadelphia, May 1–5

1961—Chicago, April 30–May 4

### **IMPORTANT ADDRESSES**

#### *Chairman of Program Committee*

DR. RILEY D. HOUSEWRIGHT  
Fort Detrick, Frederick, Md.

#### *Chairman Local Committee, 1958 meeting*

MR. J. C. McCAFFREY  
1800 W. Fillmore St.  
Chicago, 12, Illinois

#### *Committee on Materials for Visual Instruction in Bacteriology*

DR. HARRY E. MORTON  
Dept. of Bacteriology  
School of Medicine  
U. of Pennsylvania  
Philadelphia 4, Pa.

#### *Committee on President's Fellowships*

DR. ROBERT L. STARKEY  
Dept. of Agricultural Micro-  
biology  
Rutgers University  
New Brunswick, New Jersey

#### *Director of Employment Bureau*

DR. MILTON J. FOTER  
Robert A. Taft Sanitary Engi-  
neering Center  
4676 Columbia Parkway  
Cincinnati 26, Ohio

---

Plan now to attend the 59th Annual Meeting of  
**THE SOCIETY OF AMERICAN BACTERIOLOGISTS**  
Headquarters, Morrison Hotel, Chicago, Illinois • April 27 to May 1, 1958





